

## Identification of Patients Requiring Statin Therapy

### External Mentor

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Preferred Method of Contact: Piazza

### Required Skills

Web app development

UX Design

Javascript

SQL (postgres)

Server-side (optionally java, python, node)

Project planning

### Preferred Communications

Slack, WebEx

### Data Sources

SynPUF or MIMIC III

### Description

The US Preventative Services Task Force recommends that adults without a history of cardiovascular disease (CVD) (i.e., symptomatic coronary artery disease or ischemic stroke) use a low- to moderate-dose statin for the prevention of cardiovascular events and mortality when all of the following criteria are met: 1) they are ages 40 to 75 years; 2) they have 1 or more CVD risk factors (i.e., dyslipidemia, diabetes, hypertension, or smoking); and 3) they have a calculated 10-year risk of a cardiovascular event of 10% or greater. Identification of dyslipidemia and calculation of 10-year CVD event risk requires universal lipids screening in adults ages 40 to 75 years.

### Project Objectives

To develop an application that reminds providers when a patient is in need of statin therapy.

### Successful Project

A cleanly designed FHIR + CDS Hooks application that automatically identifies patients requiring Statin treatment who are not on a Statin and makes a recommendation to the provider upon chart opening.